

V&V Reference Report

L2 ASCDS Version : 10.6

Observation 20789 - L2 Version 1
Chandra X-Ray Center

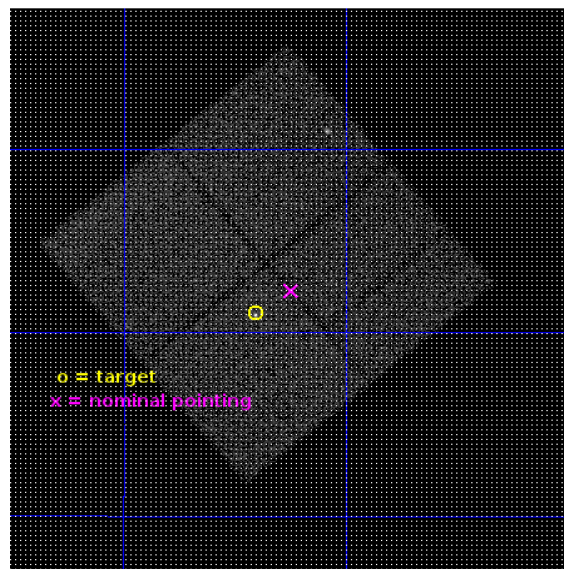
L2 Processing Date : Oct 27 2017

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1 Front

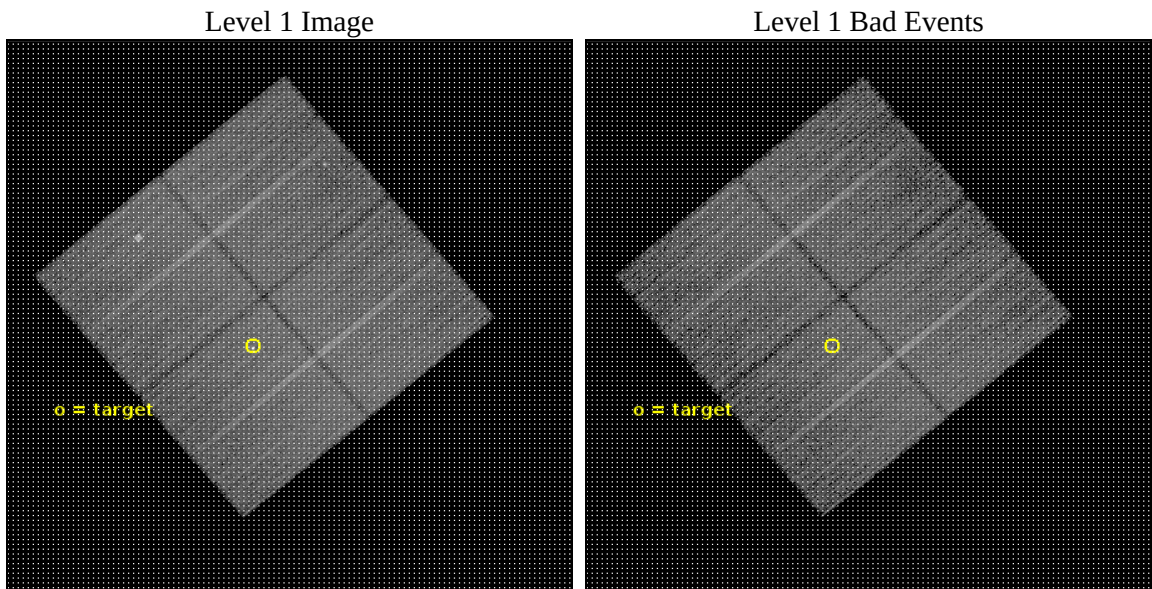
seq_num	801801	Sequence number
obs_id	20789	Observation id
title	A Unique Sample of Extreme-BCG Clusters at $0.2 < z < 0.5$	Proposal
observer	Gordon Garmire	Principal investigator
object	SDSS395	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	47.602083	Observer's specified target RA [deg]
dec_targ	39.184361	Observer's specified target Dec [deg]
ra_nom	47.561549881861	Nominal RA [deg]
dec_nom	39.204811374178	Nominal Dec [deg]
roll_nom	140.23429196677	Nominal Roll [deg]
revision	1	Processing version of data
ontime	27064.520249963	Sum of GTIs [s]
liveltime	26710.902368287	Livetime [s]
ontime0	27083.243602037	Sum of GTIs [s]
ontime1	27080.143571854	Sum of GTIs [s]
ontime2	27080.18459177	Sum of GTIs [s]
ontime3	27064.520249963	Sum of GTIs [s]
l2events	73068	Number of level 2 events



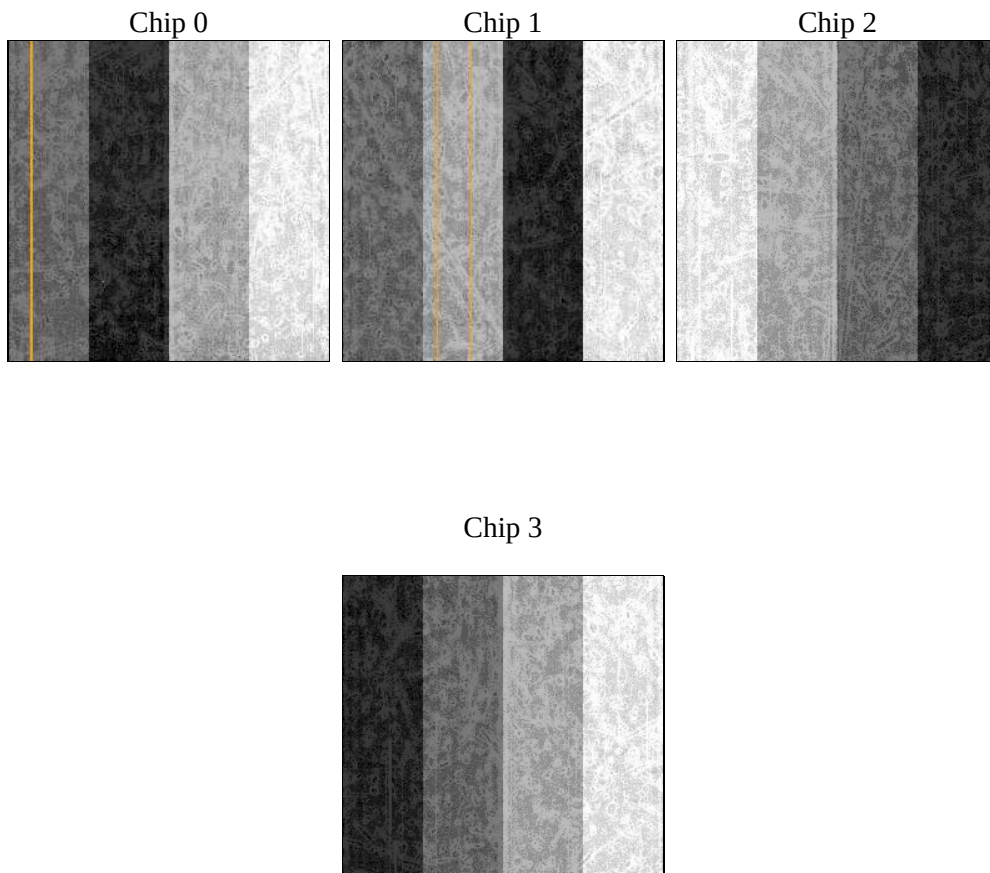
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	1	Obi number	sched_exp_time	27000.000000	[s] Scheduled observation exposure time
ascdsver	10.6	Processing system revision	ontime	27064.520249963	Sum of GTIs [s]
caldsver	4.7.6	 	ontime0	27083.243602037	Sum of GTIs [s]
date	2017-10-27T15:27:08	Date and time of file creation	ontime1	27080.143571854	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	27080.18459177	Sum of GTIs [s]
			ontime3	27064.520249963	Sum of GTIs [s]
			l1events	711901	Number of level 1 events

2.1.4 Events

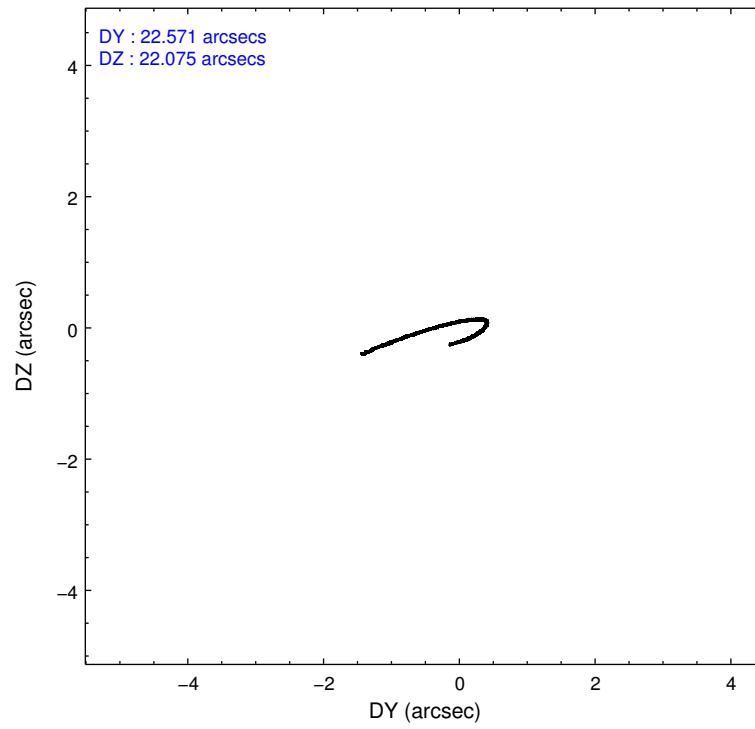
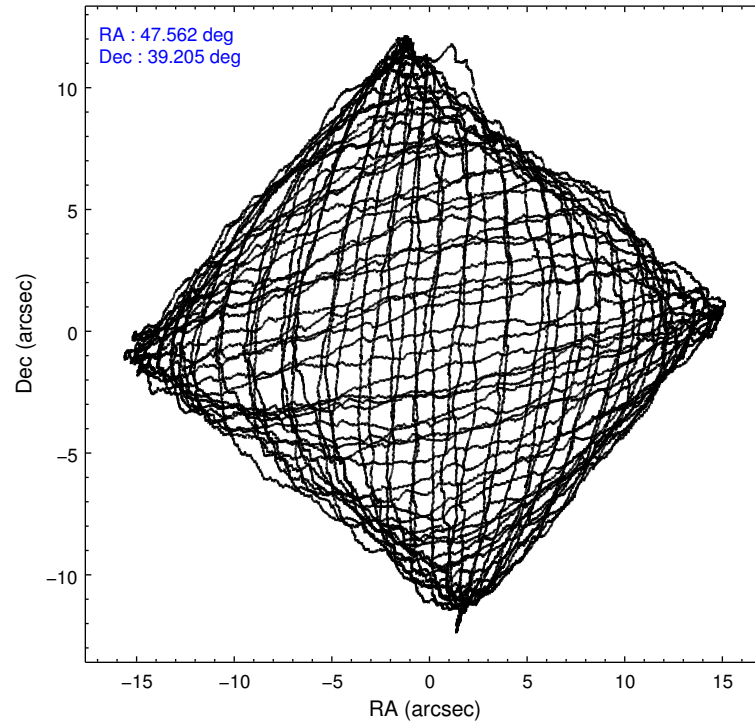
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	168576	174589	185946	182790
rejected events	148013	149613	166581	158382
rejected %	87%	85%	89%	86%

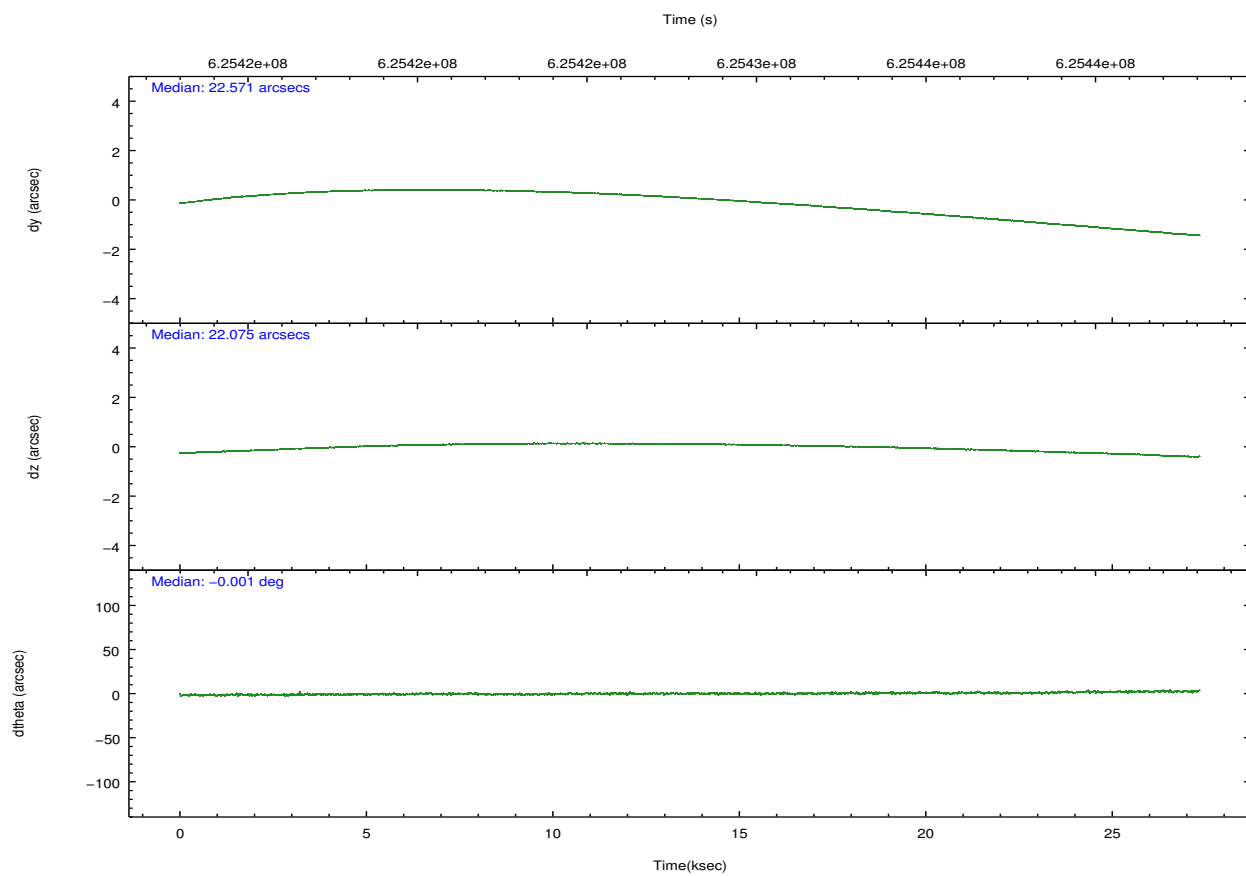
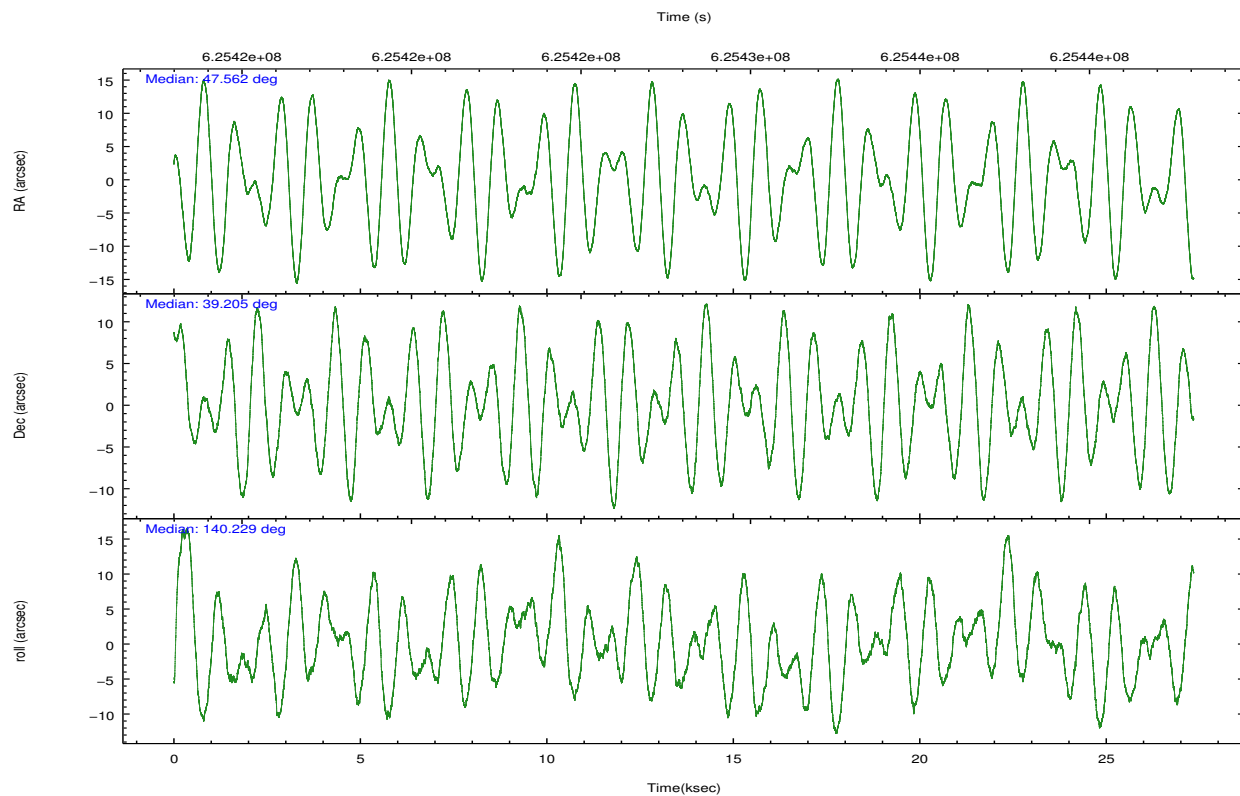
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	7133	10389	6703	10419
	4%	5%	3%	5%
grade 1 events	86	118	96	436
	0%	0%	0%	0%
grade 2 events	5029	5292	4679	4935
	2%	3%	2%	2%
grade 3 events	2114	2092	1938	2304
	1%	1%	1%	1%
grade 4 events	1921	2044	1951	2352
	1%	1%	1%	1%
grade 5 events	7845	8078	7492	9020
	4%	4%	4%	4%
grade 6 events	4369	5165	4098	4404
	2%	2%	2%	2%
grade 7 events	140079	141411	158989	148920
	83%	80%	85%	81%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	CCD I0 on	Y	Y
Observation mode	POINTING	POINTING	CCD I1 on	Y	Y
[deg] Pointing RA	47.596680	47.56154988186121	CCD I2 on	Y	Y
[deg] Pointing Dec	39.200207	39.2048113741785	CCD I3 on	Y	Y
[deg] Pointing Roll	140.003412	140.2342919667711	CCD S0 on	N	N
[mm] SIM focus pos	-0.782348	-0.7809083437167272	CCD S1 on	N	N
[mm] SIM defocus	0	0.001439871863259334	CCD S2 on	O1	N
[mm] SIM translation stage pos	-230.082463	-230.0875075610572	CCD S3 on	N	N
[mm] SIM translation stage offset	-3.51	-3.504945441872508	CCD S4 on	N	N
[s] Observation start time (MET)	625414723.184000	625413615.40264	CCD S5 on	N	N
Observation start date	2017-10-26T14:17:34	2017-10-26T14:00:15	Number of optional ACIS chips dropped	1	1
[s] Observation end time (MET)	625441723.184000	625442674.66685	On-chip summing requested	N	N
Observation end date	2017-10-26T21:47:34	2017-10-26T22:04:34	Subarray requested	NONE	NONE
Read mode	TIMED	TIMED	Alternating exposures requested	N	N
			[s] Primary exposure time	0.000000	3.1

2.3 Aspect



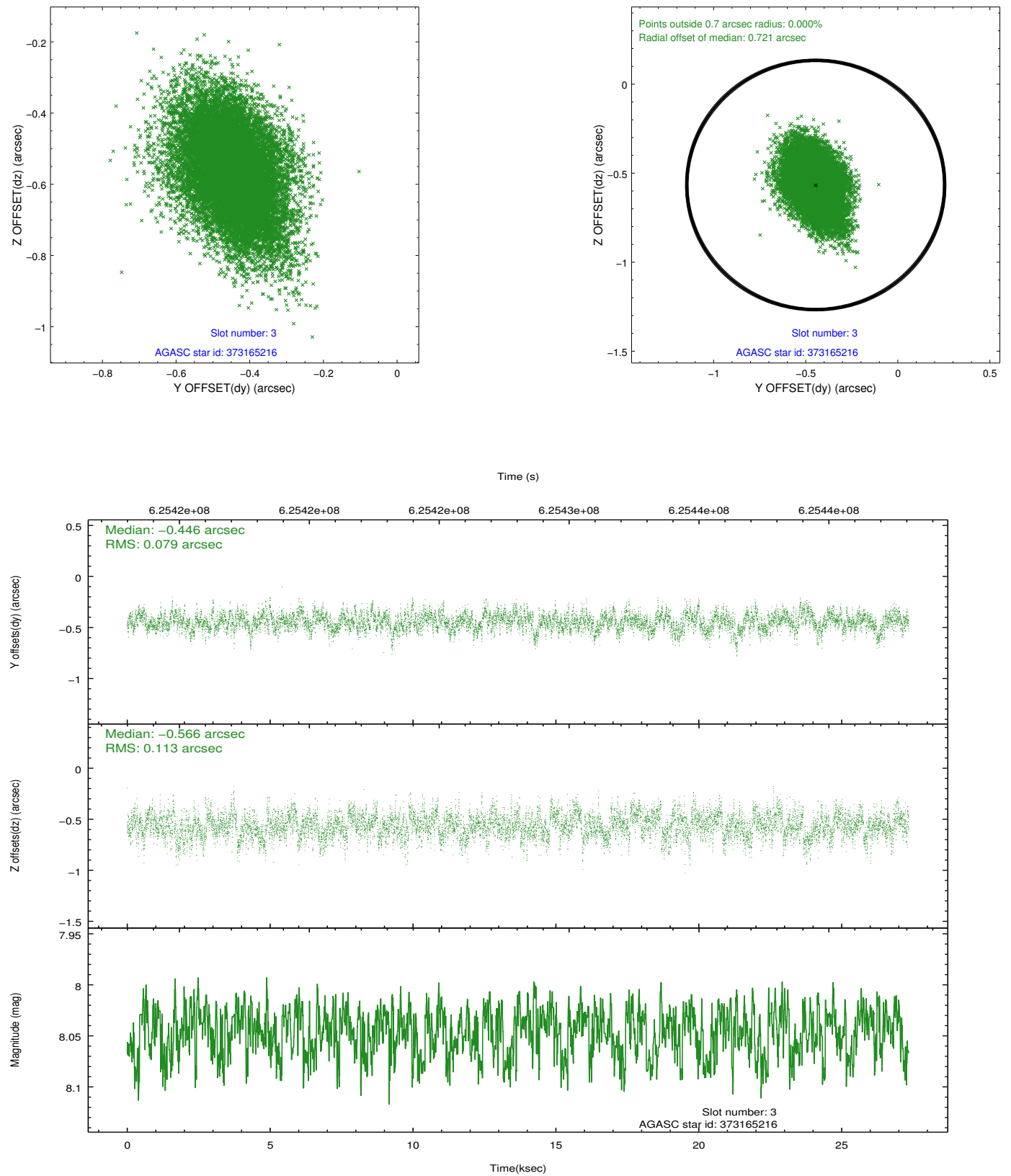


Slot Statistics

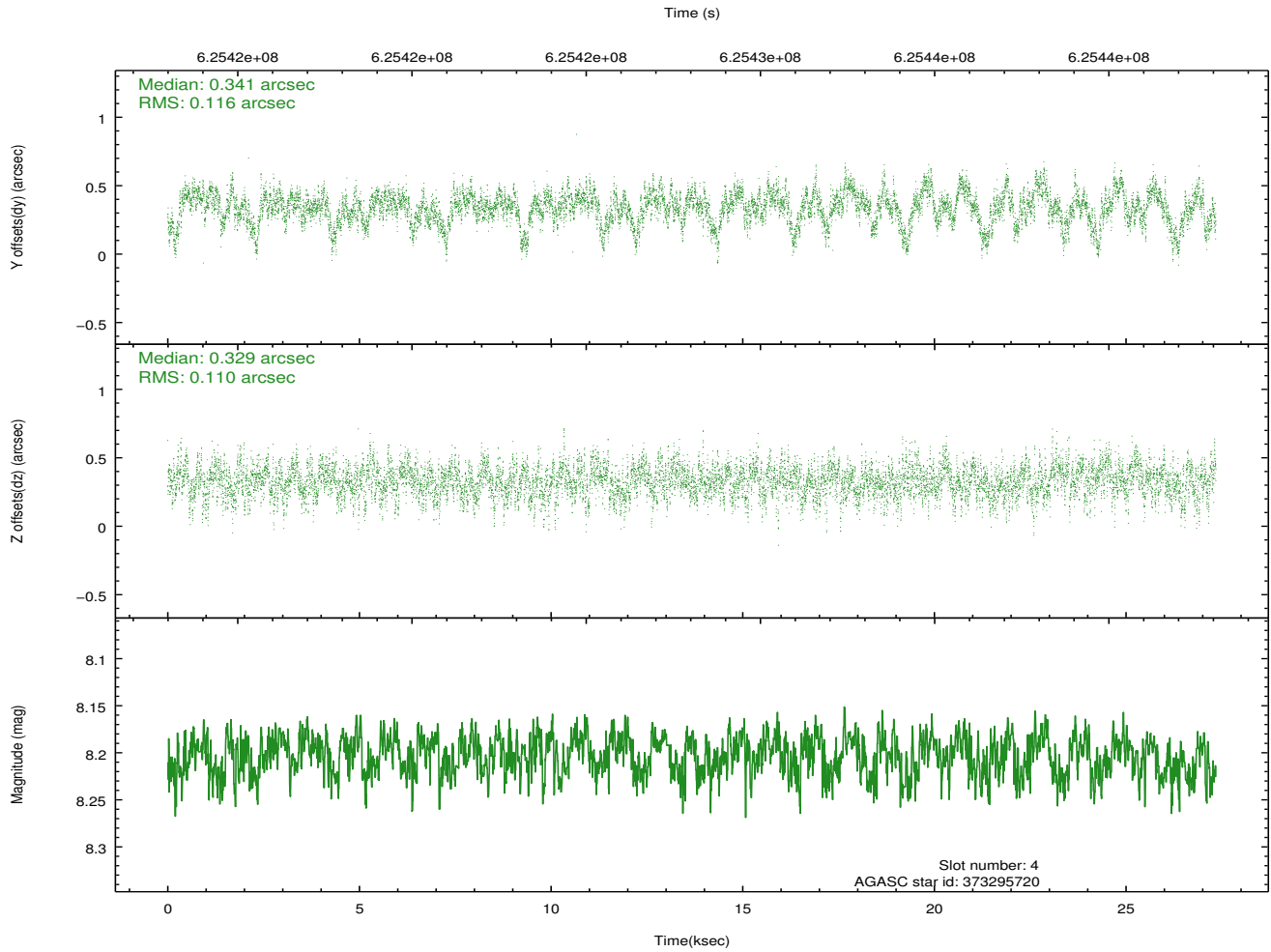
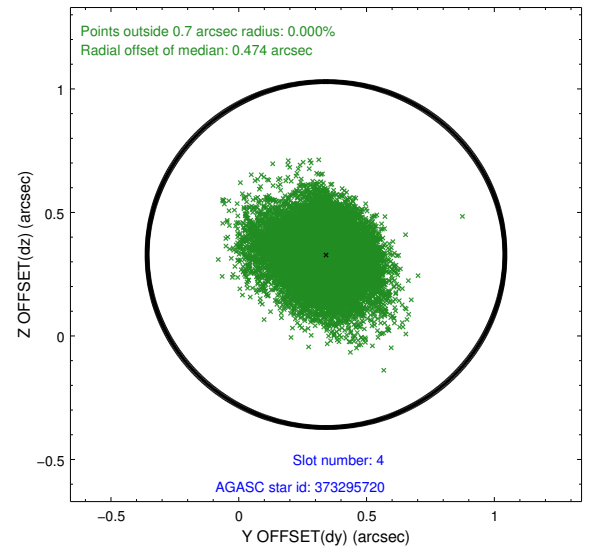
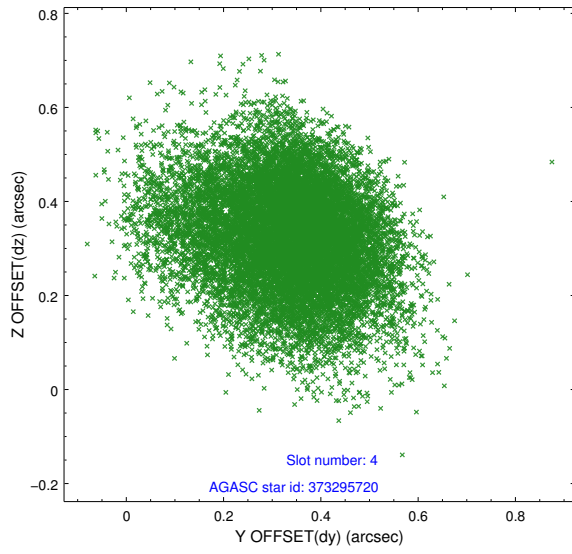
slot	status	used	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID		ACIS-I-2	7.11	6670	-0.057	-0.106	0.014	0.039	0.000000	0.000000	-777.62	-923.70
1	FID		ACIS-I-5	7.19	6669	-0.321	-0.022	0.013	0.021	0.000000	0.000000	-1831.82	979.71
2	FID		ACIS-I-6	7.19	6670	0.285	0.194	0.012	0.020	0.000000	0.000000	382.55	1624.52
3	GUIDE	used	373165216	8.04	13334	-0.446	-0.566	0.145	0.245	46.883695	39.086712	1268.59	1588.28
4	GUIDE	used	373295720	8.20	13333	0.341	0.329	0.169	0.279	48.281407	38.972607	-1989.81	-609.05
5	GUIDE	used	373295776	9.64	13284	-0.001	-0.145	0.252	0.423	47.654210	38.864257	-900.65	823.05
6	GUIDE	used	373700432	9.58	13228	0.055	-0.083	0.257	0.415	47.105517	39.773947	2369.79	-711.21
7	GUIDE	used	373821976	9.81	13317	0.042	0.452	0.320	0.532	47.727979	39.714201	911.77	-1650.46

2.4 Star Slots

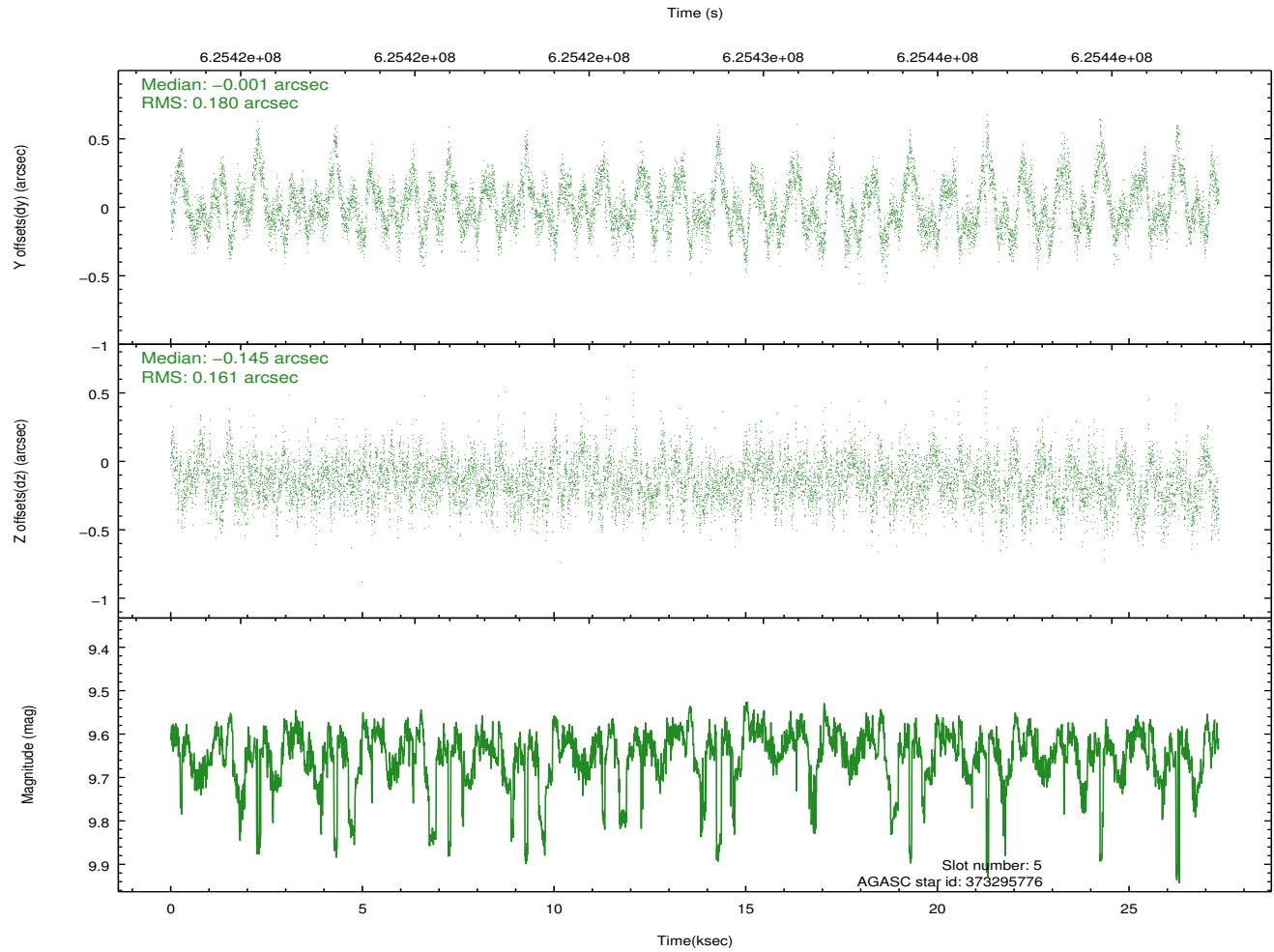
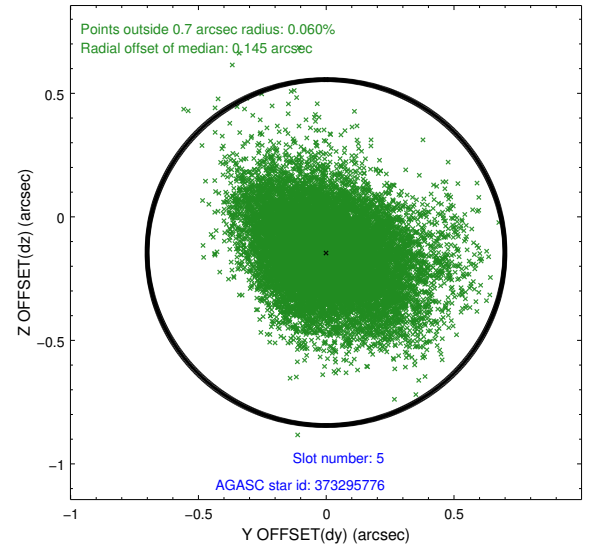
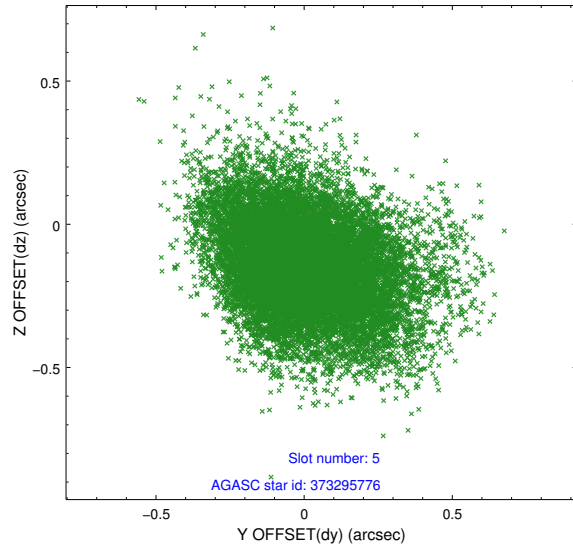
2.4.1 Slot 3



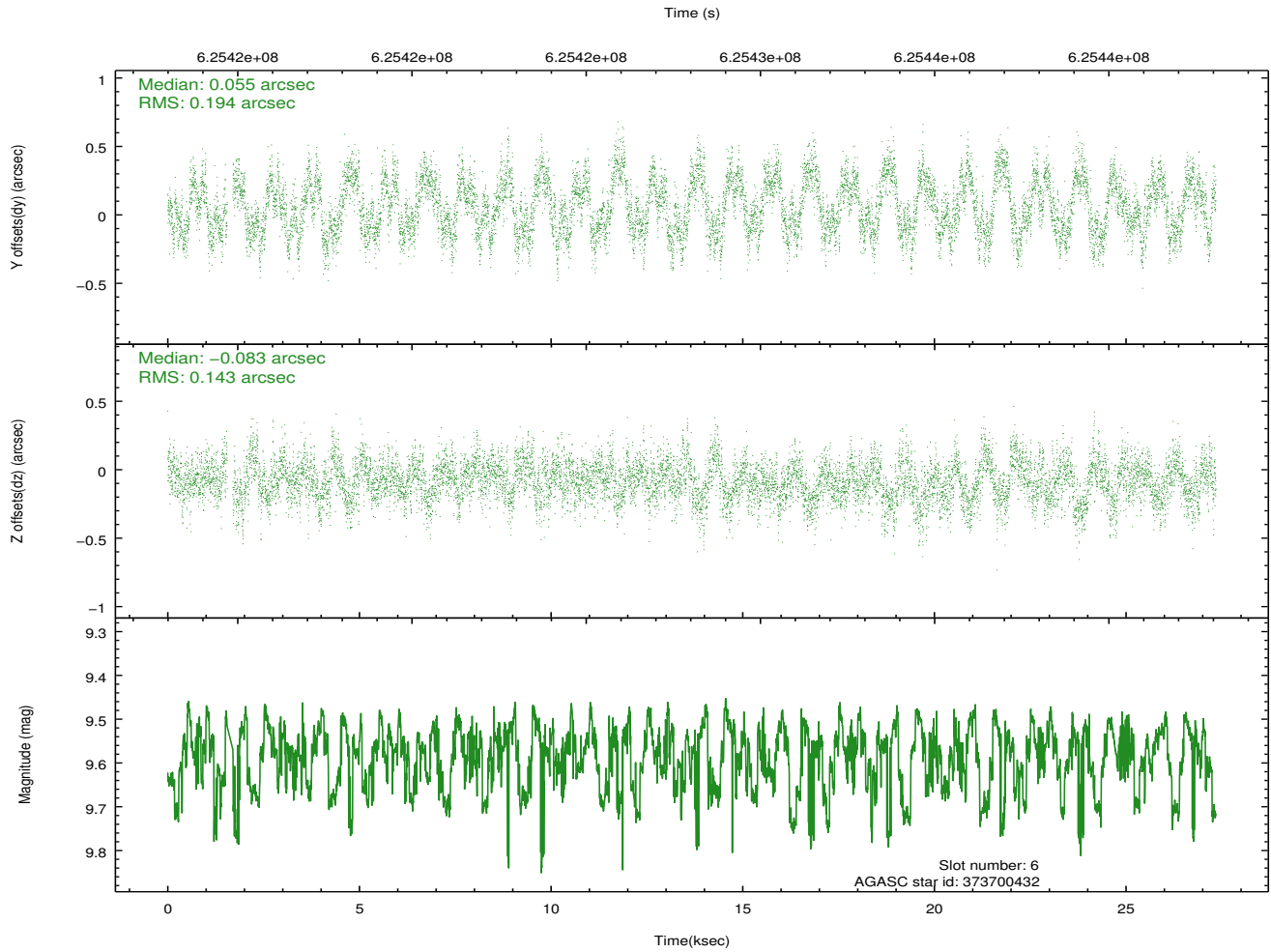
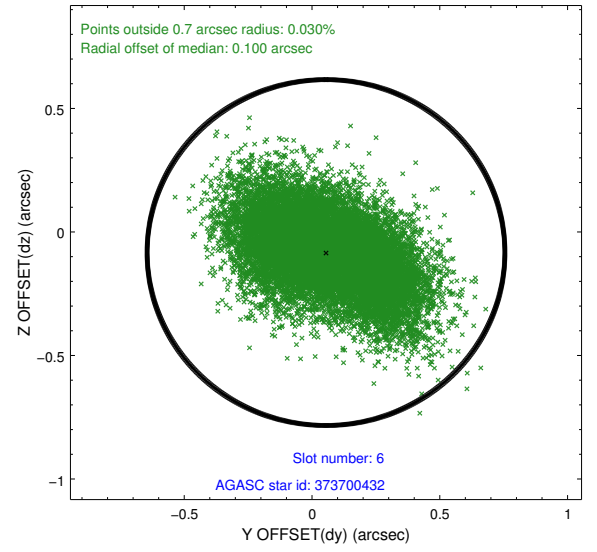
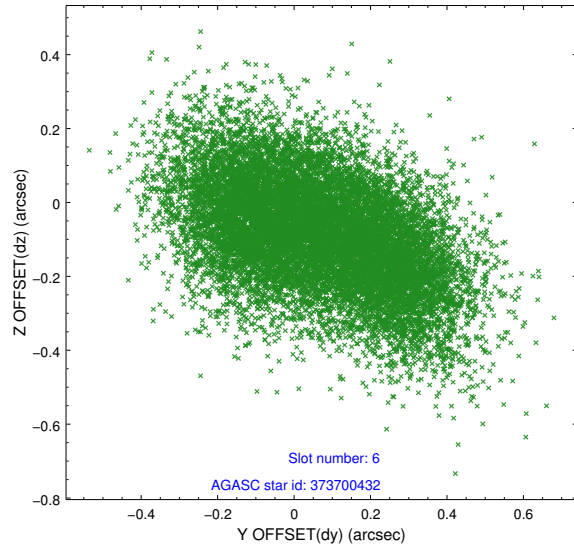
2.4.2 Slot 4



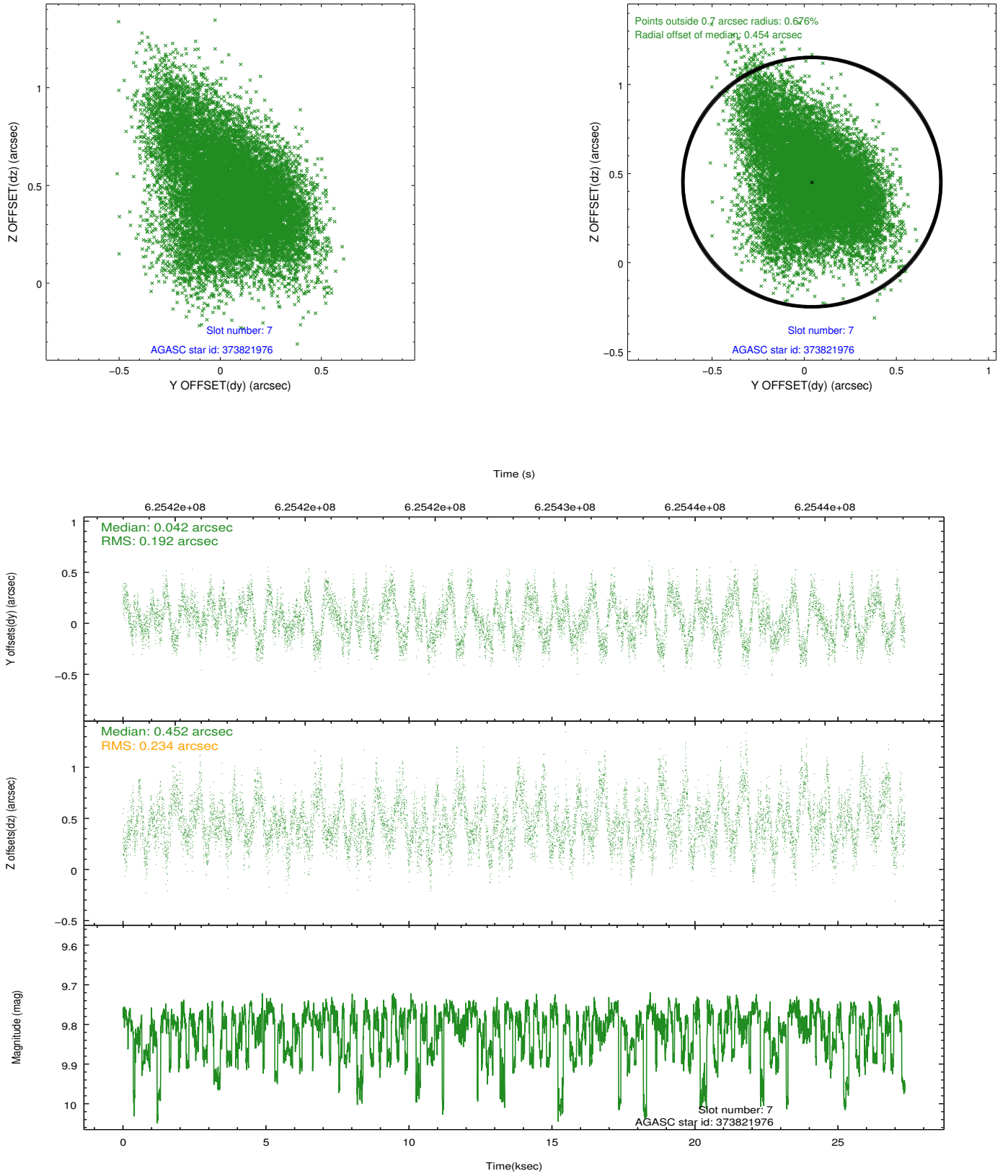
2.4.3 Slot 5



2.4.4 Slot 6

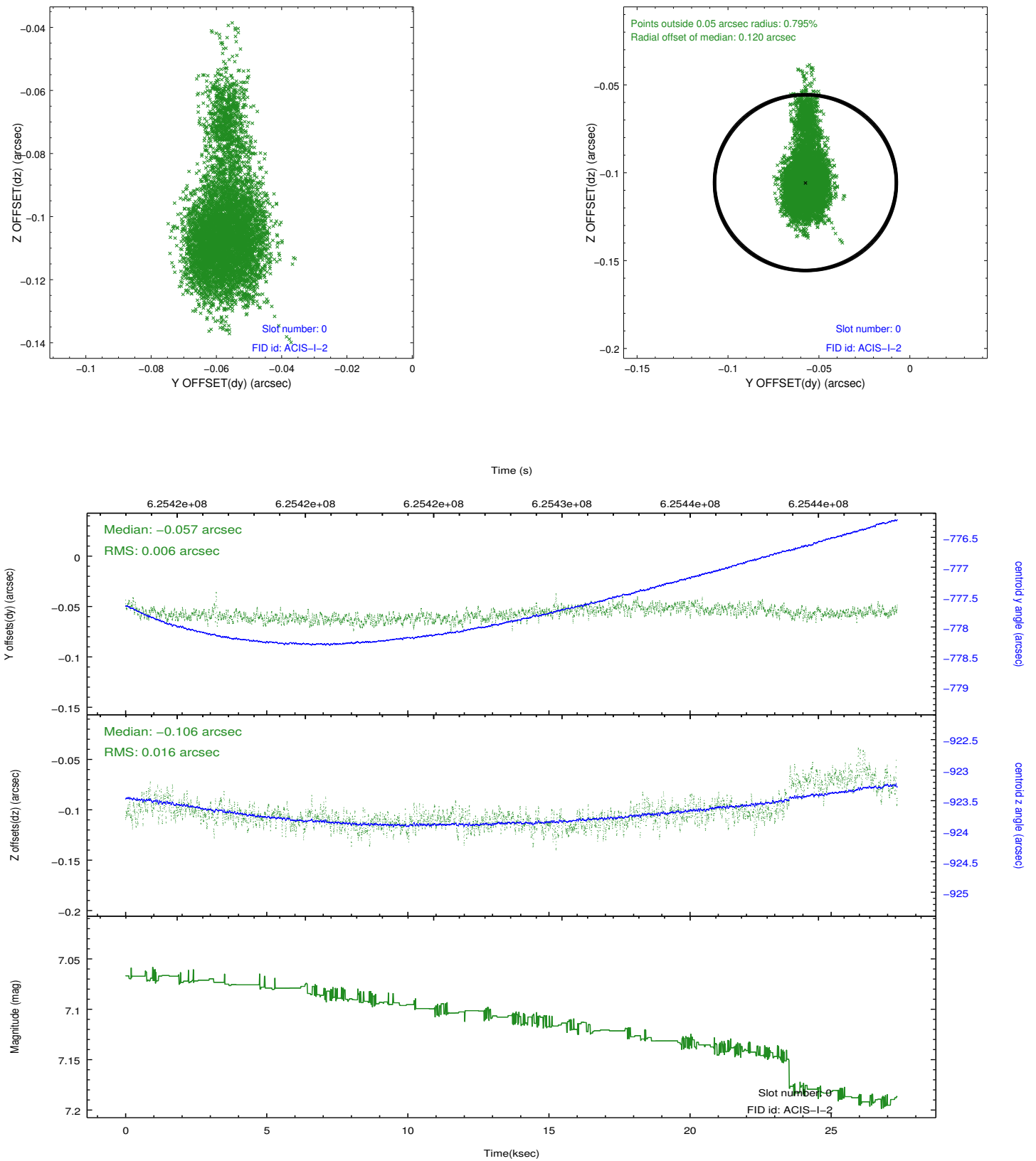


2.4.5 Slot 7

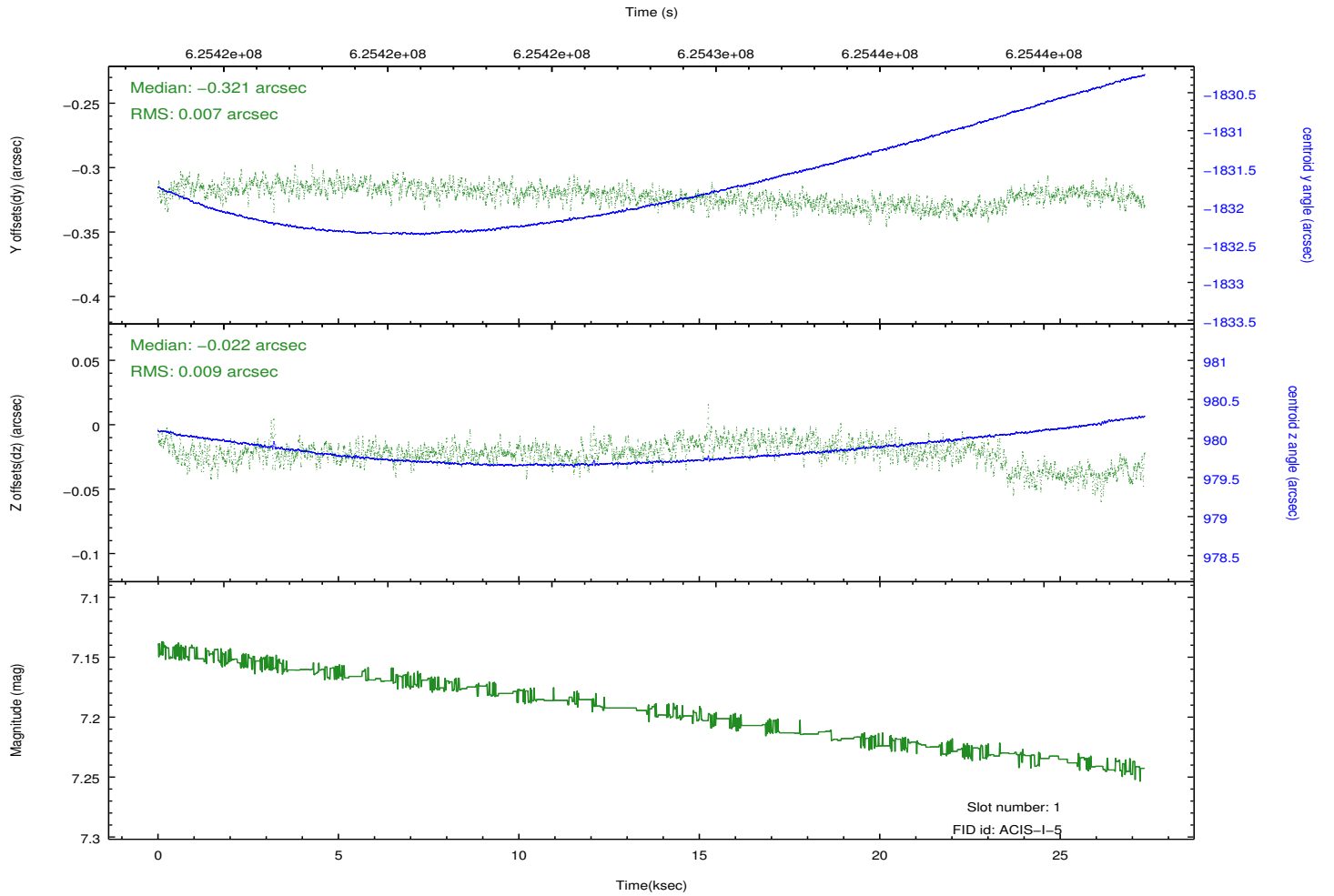
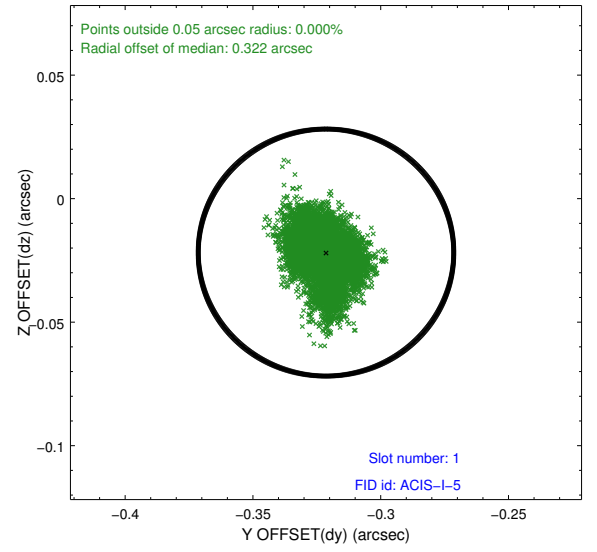
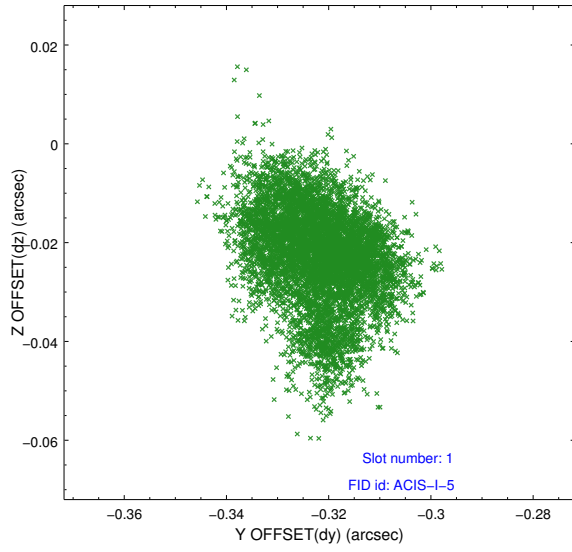


2.5 FID Slots

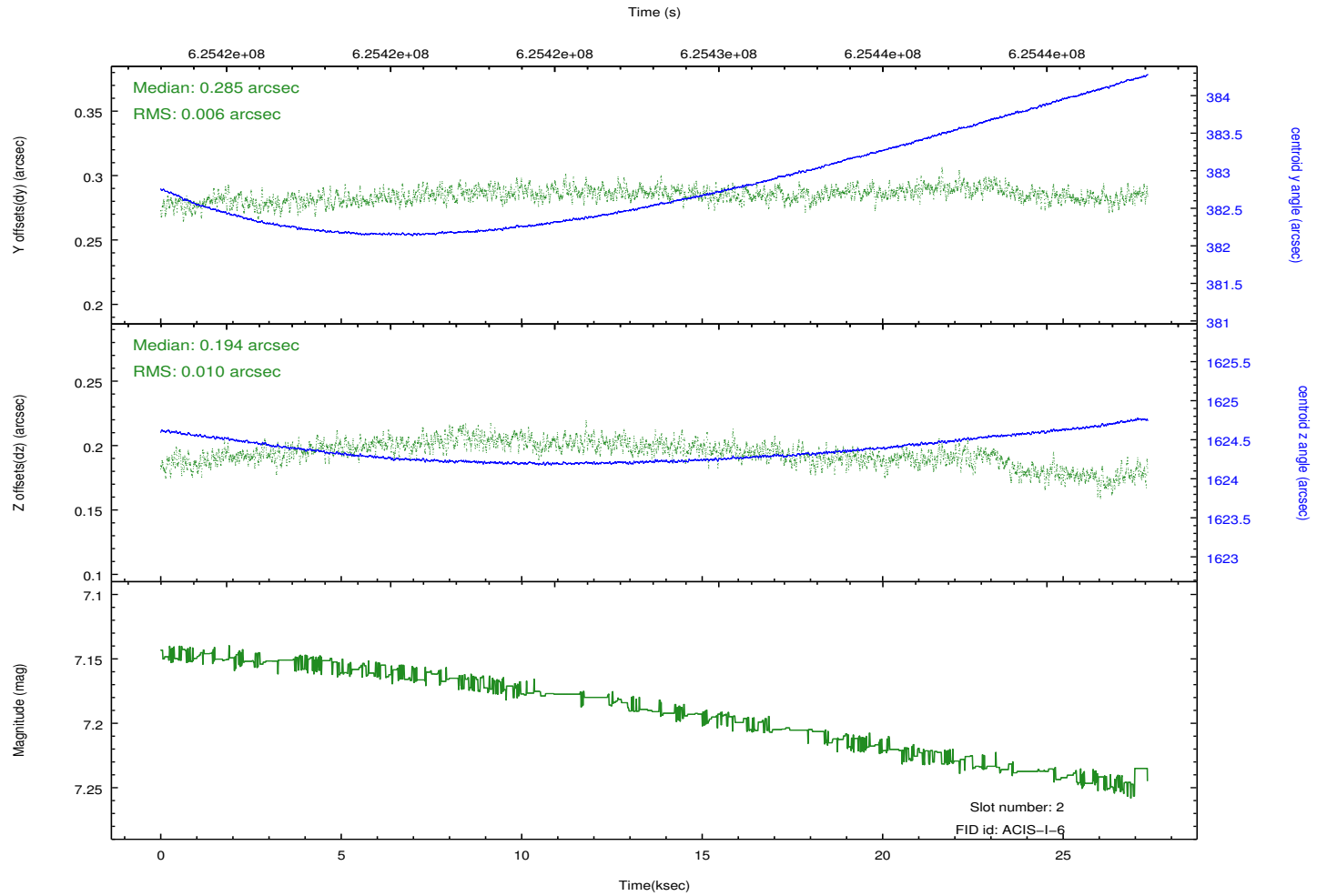
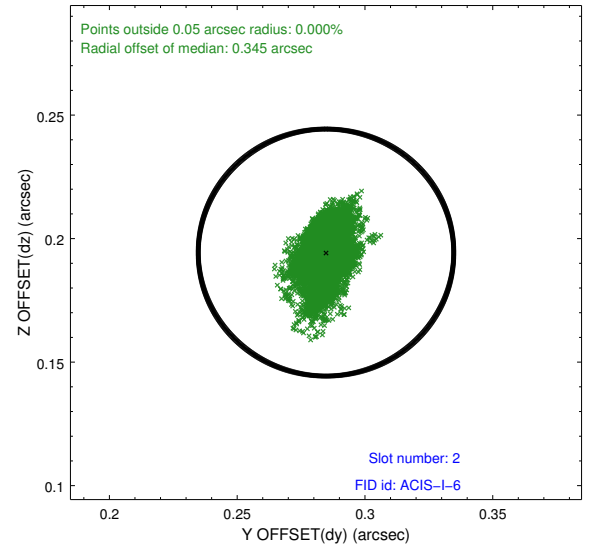
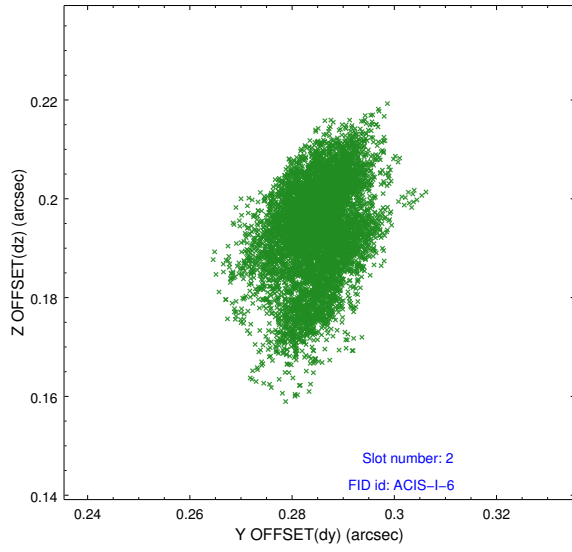
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2017.10.27
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	27.064520249963

A.2 Comments

One optional chip was dropped.